declared. It is submitted that an Interference should be established having Counts 1-26, with Claims 1-26 of U. S. Patent No. 4,948,052 and Claims 76-101 of this application, respectively, corresponding to the Counts.

Since this application Serial No. 932,470 has been involved in Interference No. 101,982 in which a decision has been rendered in applicant's favor, and applicant has been waiting to be informed that Exparte prosecution has been resumed, applicant would like to be informed of the status of this application Serial No. 932,470.

It is noted that it appears that subject application and U. S. Patent No. 4,948,052 to Hunter were co-pending in the same Group Art Unit, and have filing dates which are two (2) years and approximately four (4) months apart, with applicant being the first to file. A declaration is submitted in accordance with 37 C. F. R. 1.608 (a) alleging a basis upon which applicant is entitled to judgment relative to the patentee.

In accordance with 37 C.F.R. 1.607 (a), Claims 76-101 are copied below with the terms of the claims applied to the structure shown in subject application: (See Figure 13 and lines 22-26 of Page 36, and Pages 37 and 38 for the "cam action biasing configuration") --



(Figure 1, 13) Claim 76. An oscillating sprinkler unit, comprising: (output cap 108) a sprinkler head\_mounted for rotation about a first axis; (ring gear 50) (gear cage 18) drive means comprising a carrier and alternately operable (gears 34 and 44) (gear cage 18) terminal gear means on said carrier and shiftable (gear cage 18) with said carrier₄to alternately engageable driving (ring gear 50) positions within said drive means for driving said (output cap 108) sprinkler head in alternate directions; (toggle device 64) shifting arm means pivotally moveable between alternate (projections 100 and 200) shifting positions by shoulder means carried by said (ring gear 50) (gear cage 18) drive means for shifting said carrier between said alternately engageable positions; and (gear cage 18) (39B, 127) (31B)cam means on said carrier, and follower means slideably (31B)engaging said cam means for biasing and retaining (gear cage 18) said carrier in a selected one of said alternately engageable positions until shifted therefrom by said (toggle device 64) shifting arm means.

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Claim 77. The sprinkler unit of Claim 76 wherein (31B) (125, 35B) (39B, 127) said cam means comprises a cam lobe and said follower means engages said lobe on opposite sides thereof for biasing (gear cage 18) and retaining said carrier in a selected one of said alternately engageable positions.

Claim 78. The sprinkler of Claim 77 wherein said spring biased follower means comprises a generally L-shaped (127 and angled end) leaf spring.

Claim 79. The sprinkler of Claim 78 wherein said cam
(125, 35B) (projecting member 31B)
lobe is on said carrier and said spring biased follower
(39B, 127) (in base member 4)
means is mounted on adjacent housing structure.

Claim 80. The sprinkler of Claim 79 wherein said
(125, 35B)

cam lobe is of a substantially symmetrical V-shape; and

said spring biased follower means comprises a

(127 and angled end)

generally L-shaped leaf spring.

Claim 81. The sprinkler of Claim 77 wherein said
(125, 35B) (projecting member 31B)

cam lobe is on said carrier and said spring biased
(39B, 127) (in base member 4)

follower means is mounted on adjacent housing structure.

Claim 82. The sprinkler of Claim 81 wherein:
(26)
drive means comprises a drive gear driven by a drive
motor and mounted for rotation about a second axis
spaced from said first axis;
(gear cage 18)
5 said carrier is mounted for pivotal movement about said
second axis; and
(toggle device 64)
said shifting arm means is mounted for pivotal movement
about said first axis.

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Claim 84. The sprinkler of Claim 77 wherein said (125, 35B)

cam lobe is of a substantially symmetrical V-shape; and said spring biased follower means comprises a generally (127 and angled end)

L-shaped leaf spring.

Claim 85. The sprinkler of Claim 76 wherein:

(26)

drive means comprises a drive gear driven by a drive motor

and mounted for rotation about a second axis spaced

from said first axis;

(gear cage 18)

5 said carrier is mounted for pivotal movement about said

second axis; and

(toggle device 64)

said shifting arm means is mounted for pivotal movement

about said first axis.

```
(Figure 1, 13)
                       An oscillating sprinkler unit, comprising:
                       (output cap 108)
     a sprinkler head mounted for rotation about a first axis;
                    (page 12, lines 20, 21)
     a drive motor;
                                (gears 34, 32, 30, 26, 42, 44)
     a reversible gear train for drivingly connecting said
                                                (output cap 108)
           drive motor to said sprinkler head for driving said
 5
                           (output cap 108)
           sprinkler head₄in alternate directions, comprising a
                             (ring gear 50)
                                                        (output cap 108)
           final drive gear connected to said sprinkler head 
                                                       (gear cage 18)
           shiftable drive means comprising a carrier_and
                                                      (gears 34 and 44)
           alternately operable terminal gear means and said
                    (gear cage 18)
           carrier<sub>▲</sub> shiftable with said carrier to alternately
10
                                                          (ring gear 50)
           engageable positions with said final drive gear for
                                         (output cap 108)
           driving said sprinkler head in alternate directions;
                          (toggle device 64)
     shifting arm means pivotally mounted adjacent said
                    (gear cage 18)
          carrier and moveable between alternate shifting
                                                     (projections 100 and 200)
           positions by engagement with shoulder means carried
15
                                                        (60, 88)
          by said gear train, and lost motion means for
                                                 (toggle device 64)
           connecting said shifting arm means with said
                    (gear cage 18)
                                                (gear cage 18)
          carrier_for shifting said carrier_between said
          alternately engageable positions upon movement of
                                     (toggle device 64)
          said shifting arm means₄ between said alternate
20
           shifting positions; and
                (31B)
                                 (gear cage 18)
     cam means on said carrier slideably engageable by
                                             (39B, 127)
           adjacent biasing follower means for biasing and
                                      (gear cage 18)
          maintaining said carrier in a selected one of said
25
           alternately engageable positions until shifted
                                               (toggle device 64)
          therefrom by said shifting arm means.
```

Claim 88. The sprinkler unit of Claim 87 wherein (31B) (125, 35B) said cam means comprises a cam lobe and said adjacent biasing follower means comprises spring biased follower (39B, 127) means engaging said lobe on opposite sides thereof.

Claim 89. The sprinkler of Claim 88 wherein said spring biased follower means comprises a generally (127 and angled end)
L-shaped leaf spring.

Claim 90. The sprinkler of Claim 89 wherein said

(125, 35B) (projecting member 31B) (127 and angled end)

cam lobe is on said carrier and said L-shaped leaf spring (in base member 4)

biased is mounted on adjacent housing structure.

Claim 91. The sprinkler of Claim 88 wherein said
(125, 35B)
cam lobe is on said carrier and said spring biased follower
(39B, 127)
means is mounted on adjacent housing structure.

Claim 92. The sprinkler of Claim 88 wherein said
(125, 35B)

cam lobe is of a substantially symmetrical V-shape; and
said spring biased follower means comprises a generally

(127 and angled end)
L-shaped leaf spring.

Claim 93. The sprinkler of Claim 92 wherein:
(26)
reversible gear train comprises a drive gear driven by
said drive motor and mounted for rotation about a
second axis spaced from said first axis;
(gear cage 18)
said carrier is mounted for pivotal movement about
said second axis; and
(toggle device 64)
said shifting arm means is mounted for pivotal movement
about said first axis.

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Claim 94. The sprinkler unit of Claim 93 wherein:

(gear cage 18)

said carrier comprises a yoke surrounding said first

(toggle device 64)

axis and said shifting arm means engages said

(60, 88)

carrier through said lost motion means comprising

shoulder means on the opposite side of said first

axis from said second axis.

Claim 95. The sprinkler of Claim 87 wherein:

(26)

said reversible gear train comprises a drive gear

driven by said drive motor and mounted for rotation

about a second axis spaced from said first axis;

(gear cage 18)

5 said carrier is mounted for pivotal movement about

said second axis; and

(toggle device 64)

said shifting arm means is mounted for pivotal movement

about said first axis.

5

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Claim 97. The sprinkler of Claim 96 wherein said (125, 35B)

cam lobe is of a substantially symmetrical V-shape; and said spring biased follower means comprises a generally (127 and angled end)

L-shaped leaf spring.

Claim 98. An oscillating sprinkler unit, comprising:

(2)
a housing having a generally cylindrical configuration

(95)
with a central axis, an inlet at a lower end for

attachment to a source of water and an outlet at

an upper end;

(output cap 108)
a sprinkler head mounted at said upper end for rotation

about said central axis;
(page 12, lines 20, 21)
a drive motor mounted in said housing for driving said

(34, 32, 30, 26, 42, 44)

10 a shiftable gear trains comprising terminal drive gear

(gears 34 and 44)

means including an internal gear connected to said

(output cap 108)

sprinkler head, shiftable means for alternatively

(gears 34 and 44)

sprinkler head;

shifting said terminal drive gear means alternatively

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(ring gear 50)
          into engagement with said internal gear Afor
                                        (output cap 108)
          driving said sprinkler head in alternate directions;
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                                                            (12)
     said shiftable drive means comprising a drive shaft
                                       (page 12, lines 20, 21)
          driven by said drive motor and operatively
                                      (26)
          connected to a drive gear mounted for rotation
          about a second axis offset from said first axis;
                         (gear cage 18)
     a pivoting carrier mounted for pivotal movement about
20
          said second axis;
                                       (34)
                                                         (gear cage 18)
     one of said terminal gear means mounted on said carrier
          on one side of said second axis, and the other of
                                                      (gear cage 18)
          said drive gears mounted on said carrier on the
          other side of said second axis;
25
                                                     (gear cage 18)
                     (toggle device 64)
     a shifting arm mounted adjacent said carrier for pivotal
          movement about said first axis;
                                                      (toggle device 64)
                        (60, 88)
     lost motion means disposed between said shifting arm ▲
                             (gear cage 18)
          and said carrier for connecting said shifting arm
          to said carrier for shifting said terminal drive
30
                       (gears 34 and 44)
          gear means to alternately engageable positions;
                                        (90, 92)
     first over-center biasing means∡for maintaining said
                               (toggle device 64)
           shifting arm means<sub>▲</sub>in a selected one of said
           alternately shifting positions; and
                                              (gear cage 18)
                             (31B)
     over-center cam means on said carrier slideably
35
           engageable by adjacent spring biased follower
                                                     (gear cage 18)
                 (39B, 127)
           means for biasing and maintaining said carrier
           in a selected one of said alternate engageable
           positions.
```

Claim 99. A sprinkler unit according to Claim 98 wherein:

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(35B, 125) said over-center cam means comprises a dual faced cam

and said follower means comprises a generally

(127 and angled end)

(128 and angled end)

(129 angled end)

(220 angled end)

(220

Claim 100. The sprinkler of Claim 99 wherein said

(35B, 125) (projecting member 31B) (39B, 127)

dual faced camais on said carrier and said springais

(in base member 4)

mounted on adjacent housing structure.

Claim 101. The sprinkler of Claim 100 wherein said

cam has a lobe that is of a substantially symmetrical

(Fig. 13)

V-shape; and

(127 and angled end)

said spring comprises a generally L-shaped leaf spring.

It would be appreciated if an INTERFERENCE could be set up as soon as possible.

A transmittal letter is enclosed, authorizing payment of any additional fees to be charged to Deposit Account No. 13-0120 which are not covered by applicant's enclosed check for \$350.00.

Applicant must repeat that this application has been in Interference No. 101,982. This Interference No. 101,982 involved another patent of Edwin J. Hunter.

Ву

Respectfully submitted,

Jack N. McCarthy

Agent of Record

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Docket No.: CLCK-86

Date: February 11, 1991

Date of Deposit 2/11/91 Mailing Label No. LB 090036903 I horeby verify that this amendment including any drawing referred to therein, is being deposited with the U.S. Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner of Patents and Tradomarks, Washington, D. C. 20231, and this statement was made with the knowledge that willful false statements and the like so made are punishable by fine and/or imprisonment ander, 18 USC 1001 and may yeopardize the validity of the application or any patent is suits thereon.

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